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Application No.: 10/712,755
Attorney Docket No.: 25203B

IN THE CLAIMS

1. (Currently Amended) A binder slurry for a continuous filament mat used in a phenolic pultrusion system comprising:
a phenolic compatible silane; and
a polyvinyl acetate/silane copolymer, said phenolic compatible silane and said polyvinyl acetate/silane copolymer forming a binder slurry for application to sized continuous fiber strands forming a continuous filament mat
wherein said binder slurry provides a compatible interface for phenolic resin systems.
2. (Previously Presented) The binder slurry of claim 1, further comprising at least one member selected from the group consisting of a non-ionic surfactant, a defoamer, water and an organic acid.
3. (Previously Presented) The binder slurry of claim 2, wherein said organic acid is acetic acid and wherein the pH of said binder slurry is maintained between approximately 4 and 6.
4. (Previously Presented) The binder slurry of claim 1, wherein said phenolic compatible silane comprises a gamma-aminopropyl trimethoxy silane.
- 5.-14. Canceled
15. (Previously Presented) The binder slurry of claim 2, wherein:
said polyvinyl acetate/silane copolymer is present in said slurry in an amount from about 0.6 to about 4.0 percent by weight;
said phenolic compatible silane is present in said slurry in amount from about 0.1 to about 0.6 percent by weight;
said non-ionic surfactant is present in said slurry in an amount from about 0.001 to about 0.05 percent by weight; and
said defoamer is present in said slurry in an amount from about 0.005 to about 0.05 percent by weight.

Application No.: 10/712,755
Attorney Docket No.: 25203B

16.-25. Canceled

26. (New) The binder slurry of claim 1, wherein said binder slurry is compatible with a phenolic resin in a phenolic pultrusion process.

27. (New) A binder slurry for a continuous filament mat used in a phenolic pultrusion system comprising:

a phenolic compatible silane; and

a binder selected from the group consisting of a polycarboxylic acid/polyhydric alcohol and a self-crosslinking acrylic copolymer.

28. (New) The binder slurry of claim 27, further comprising at least one member selected from the group consisting of a non-ionic surfactant, a defoamer, water and an organic acid.

29. (New) The binder slurry of claim 27, wherein said phenolic compatible silane comprises a gamma-aminopropyl trimethoxy silane.

30. (New) The binder slurry of claim 27, wherein the pH of said slurry is between about 4 and about 6.

31. (New) A binder slurry for a continuous filament mat used in a phenolic pultrusion system comprising:

a phenolic compatible silane; and

a powdered polymer resin having a thermally active cross-linking agent therein.

32. (New) The binder slurry of claim 31, wherein said powdered polymer resin is a bisphenyl type epoxy resin and said active cross-linking agent is a dicyandiamide.

33. (New) The binder slurry of claim 32, wherein said phenolic compatible silane comprises a gamma-aminopropyl trimethoxy silane.

Application No.: 10/712,755
Attorney Docket No.: 25203B

34. (New) The binder slurry of claim 31, further comprising at least one member selected from the group consisting of a non-ionic surfactant, a defoamer and an organic acid.

35. (New) The binder slurry of claim 34, wherein:

said powdered polymer resin having a thermally active cross-linking agent therein is present in said slurry in an amount from about 0.3 to about 2.0 percent by weight;

said phenolic compatible silane is present in said slurry in an amount from about 0.1 to about 0.6 percent by weight;

said non-ionic surfactant is present in said slurry in an amount from about 0.005 to about 0.02 percent by weight; and

said defoamer is present in said slurry in an amount from about 0.005 to about 0.02 percent by weight.

36. (New) The binder slurry of claim 31, wherein the pH of said slurry is between about 4 and about 6.